

CLAIMS:

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1. A method of modifying a text (400) using a set of statistical models (406, 408) being generated on the basis of training data and/or by manual coding, the method of modifying the text comprising the steps of:

- 10 - segmenting the text into a plurality of sections (402, 404),
 - assigning one of the set of statistical models (406, 408) to each section,
 - performing a text modification procedure for each section with respect to the statistical model being assigned to the section.

15 2. The method according to claim 1, wherein the text modification procedure comprises a text formatting process for which the assigned statistical model (406, 408) provides formatting rules (412, 414, 418, 420) being specific for a topic of the section.

20 3. The method according to claim 1, wherein the text (400) has been generated by a first speech recognition pass, the modification procedure comprising a second speech recognition pass making use of a language model (410, 416) and/or speech recognition parameters of the statistical model (406, 408) being assigned to each section.

25 4. The method according to any one of the claims 1 to 3, wherein each statistical model (406, 408) comprises a topic specific language model (410, 416) and topic specific formatting rules (412, 414, 418, 420), the language model having a topic specific vocabulary.

30 5. The method according to any one of the claims 1 to 4, wherein the section assigned to a statistical model (406, 408) is analyzed in order to adapt the statistical model to the analyzed section.

6. A method of transcribing speech to text using a set of language models (410, 416) being generated on the basis of training data, the method of transcribing comprising the steps of:

- 5 - starting a speech recognition process in order to recognize a first portion of speech,
- selecting a first language model of the set of language models based on the recognized first portion of speech and assigning the first language model to the first portion of speech,
- 10 - continuing the speech recognition process in order to recognize subsequent portions of speech by making use of the first language model,
- selecting a second language model and assigning the second language model to a subsequent portion of speech, if the subsequent portion of speech is better modeled by the second language model than by the first language model.

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7. A method according to any one of the claims 3 to 6, wherein the statistical models (406, 408) further comprise topic specific speech recognition parameters, in order to provide a topic specific speech recognition pass.

20 8. A computer system for modifying a text (400) using a set of statistical models (406, 408) being generated on the basis of training data and/or by manual coding, the computer system comprising:

- 25 - means for segmenting the text into a plurality of sections (402, 404),
 - means for assigning one of the set of statistical models (406, 408) to each section,
 - means for performing a text modification procedure for each section with respect to the statistical model being assigned to the section.

9. The computer system according to claim 8, wherein the means for
30 performing the text modification procedure are adapted to accomplish a text formatting

procedure for which the assigned statistical model (406, 408) provides formatting rules (412, 414, 418, 420) being specific for a topic of the section.

10. The computer system according to claim 8, wherein the text (400) has been generated by a first speech recognition pass, the means for performing the text modification procedure are adapted to accomplish a second speech recognition pass making use of the language model (410, 416) and/or speech recognition parameters of the statistical model (406, 408) being assigned to each section (402, 404).
- 10 11. The computer system according to any one of the claims 8 to 10, wherein each statistical model (406, 408) comprises a topic specific language model (410, 416) and topic specific formatting rules (412, 414, 418, 420), the language model having a topic specific vocabulary.
- 15 12. The computer system according to any one of the claims 8 to 11, further comprising means for analyzing the section (402, 404) assigned to a statistical model (406, 408), in order to adapt the statistical model to the analyzed section.
13. A computer system for transcribing speech to text using a set of language models (407, 409) being generated on the basis of training data, the computer system comprising:
 - means for starting a speech recognition process, the means being adapted to recognize a first portion of speech,
 - means for selecting a first language model of the set of language models based on the recognized first portion of speech and means for assigning the first language model to the first portion of speech,
 - means for continuing the speech recognition process being adapted to recognize subsequent portions of speech by making use of the first language model,

- means for selecting a second language model and assigning the second language model to subsequent portion of speech, if a subsequent portion of speech is better modeled by the second language model than by the first language model.

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14. A computer program product for modifying a text (400) using a set of statistical models (406, 408) being generated on the basis of training data and/or by manual coding, the computer program product comprising program means for:

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- segmenting the text into a plurality of sections (402, 404),
- assigning one of the set of statistical models (406, 408) to each section, performing a text modification procedure for each section with respect to the statistical model being assigned to the section.

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15. The computer program product according to claim 14, wherein the program means for performing the text modification procedure are adapted to accomplish a text formatting procedure for which the assigned statistical model (406, 408) provides formatting rules (412, 414, 418, 420) being specific for a topic of the section.

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16.. The computer program product according to claim 15, wherein the text (400) has been generated by a first speech recognition pass, the program means for performing the text modification procedure are adapted to accomplish a second speech recognition pass making use of a language model (410, 416) and/or speech recognition parameters being assigned to each section (402, 404).

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17. The computer program product according to any one of the claims 14 to 16, wherein each statistical model (406, 408) comprises a topic specific language model (410, 416) and topic specific formatting rules (412, 414, 418, 420), the language model having a topic specific vocabulary.

18. The computer program product according to any one of the claims 14 to 17, further comprising means for analyzing a section assigned to a statistical model (406, 408), in order to adapt the statistical model to the analyzed section.

5 19. A computer program product for transcribing speech to text (400) using a set of language models (410, 416) being generated on the basis of training data and/or by manual coding, the computer program product comprising program means being adapted for:

- starting a speech recognition process, in order to recognize a first portion of speech,
- selecting a first language model of the set of language models based on the recognized first portion of speech and assigning the first language model to the first portion of speech,
- continuing the speech recognition process in order to recognize subsequent portions of speech by making use of the first language model
- selecting a second language model and assigning the second language model to a subsequent portion of speech, if the subsequent portion of speech is better modeled by the second language model than by the first language model.